

INTERNATIONAL SEARCH REPORT

NO 7029/WOIPCT/

International Application No

PCT/EP 03/10733

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A23F5/18 A23F5/46 A23F5/40
B65D81/26PCT/EP 03/10733
B65D51/24 MAR 2005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A23F B65D A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Derwent Publications Ltd., London, GB; AN 1984-008632 XP002268483 "Coffee packaging - by treating with ferrous cpd., alkali or alkaline earth metal hydroxide and alkali metal sulphite" & JP 58 203865 A (TOPPAN PRINTING CO LTD), 28 November 1983 (1983-11-28)	1,7-10, 14-21, 25,32
Y	abstract	1,2, 7-12, 14-20, 22,25, 27-29, 31,32
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

29 January 2004

Date of mailing of the international search report

13/02/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 364 555 A (ZENNER BRUCE D ET AL) 15 November 1994 (1994-11-15) column 1, line 12-25 column 7, line 35 -column 8, line 65 column 10, line 65 -column 11, line 21 ---	1,2,7-9, 11, 14-17, 25,27, 29,31
Y	EP 0 328 336 A (GRACE W R & CO) 16 August 1989 (1989-08-16) column 1, line 53-61 column 2, line 56-60 column 3, line 2 -column 4, line 10 ---	1,8-11, 14-20, 25,27,32
Y	US 4 287 995 A (MORIYA TAKEHIKO) 8 September 1981 (1981-09-08) figures 1-28 column 1, line 7-13,46-48 column 2, line 34-59 column 5, line 1-7 ---	1,8-11, 14-20, 25,27,32
Y	WO 96 11861 A (CHEVRON CHEM CO) 25 April 1996 (1996-04-25) page 1, line 2-5,24-28 page 4, line 30 -page 5, line 8 page 7, line 15 -page 8, line 19 page 16, line 23-25 ---	1,2,8, 10,11, 14-17, 22,25, 27,32
Y	US 4 897 273 A (IWATA KOU ET AL) 30 January 1990 (1990-01-30) figures 3A,3B,5A,5B column 1, line 17-22,40-42,52-57 column 2, line 2-8 ---	1,2,7-9, 12, 14-20, 25,28, 29,32
A	US 4 798 732 A (OSAWA HIDE) 17 January 1989 (1989-01-17) column 3, line 3-9 ---	1-33
A	"Additives for coffee to preserve aroma - comprise catalase, glutathione, sulphate, cysteine and antioxidant" DERWENT, XP002214128 abstract ---	1-33
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 8 May 2002 (2002-05-08) MORALES FJ, BABBEL MB: "Antiradical efficiency of Maillard reaction mixtures in a hydrophilic media" Database accession no. 200200317992 XP002268482 abstract</p> <p>---</p>	1-33
A	<p>PATENT ABSTRACTS OF JAPAN vol. 2003, no. 02, 5 February 2003 (2003-02-05) & JP 2002 281948 A (KANEGAFUCHI CHEM IND CO LTD), 2 October 2002 (2002-10-02) abstract</p> <p>---</p>	1-33
T	<p>SEMMELOCH P ET AL: "ANALYSIS OF ROASTED COFFEE POWDERS AND BREWS BY GAS CHROMATOGRAPHY-OLFACTOMETRY OF HEADSPACE SAMPLES" LEBENSMITTEL WISSENSCHAFT UND TECHNOLOGIE, ACADEMIC PRESS, LONDON, GB, vol. 28, no. 3, 1995, pages 310-313, XP000602989 ISSN: 0023-6438</p> <p>-----</p>	1-33

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-2+, 3-6, 8+, 10+,12+,13,14-24+ (+: partial)

Process for stabilizing a coffee aroma component by reversably contacting it with a stabilizer during its manufacture. The product is then stored after removal of the stabilizing agent.

2. Claims: 1-2+ 7, 8+, 9, 10+, 11, 12+, 14-24+, 25-29, 31-32

Process for the stabilization of a coffee aroma providing component, where the product is stored in the presence of the stabilizing agent which is incorporated in a non-miscible material, and the material with the stabilizer therein is either removable or attached to the container

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 30,33

Present claims 30, 33 relate to a product defined by reference to its performance under storage tests, as determined by the evolution of the level of certain chemical compounds.

The use of these parameters in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to compare the parameters the applicant has chosen to employ with what is set out in the prior art. The lack of clarity is such as to render a meaningful complete search impossible. Consequently, these claims could not be searched.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International application No.
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 30, 33
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 58203865	A	28-11-1983	JP 1668470 C	29-05-1992
			JP 3033588 B	17-05-1991
US 5364555	A	15-11-1994	US 5492742 A	20-02-1996
			AT 197136 T	15-11-2000
			AU 651349 B2	21-07-1994
			AU 7898691 A	27-11-1991
			DE 69132454 D1	30-11-2000
			DE 69132454 T2	10-05-2001
			DK 527207 T3	26-02-2001
			EP 0527207 A1	17-02-1993
			ES 2153349 T3	01-03-2001
			GR 3035127 T3	30-04-2001
			JP 3300344 B2	08-07-2002
			JP 6503367 T	14-04-1994
EP 0328336	A	16-08-1989	AU 2980889 A	10-08-1989
			EP 0328336 A1	16-08-1989
			JP 1315438 A	20-12-1989
			ZA 8900944 A	29-08-1990
US 4287995	A	08-09-1981	JP 55117961 U	20-08-1980
			JP 55129653 U	12-09-1980
			JP 55129654 U	12-09-1980
			JP 55129655 U	12-09-1980
			JP 55131964 U	18-09-1980
			JP 55080260 U	03-06-1980
			JP 55080261 U	03-06-1980
			JP 55084253 U	10-06-1980
			DE 2948264 A1	04-06-1980
WO 9611861	A	25-04-1996	AU 699050 B2	19-11-1998
			AU 3761795 A	06-05-1996
			CA 2201738 A1	25-04-1996
			WO 9611861 A1	25-04-1996
			US 5744246 A	28-04-1998
US 4897273	A	30-01-1990	JP 63258707 A	26-10-1988
			CA 1283633 C	30-04-1991
			EP 0257892 A2	02-03-1988
			ES 2027295 T3	01-06-1992
			DE 3774213 D1	05-12-1991
			KR 9201705 B1	24-02-1992
US 4798732	A	17-01-1989	JP 63129955 A	02-06-1988
			CA 1324286 C	16-11-1993
			CN 87107978 A , B	01-06-1988
			KR 9511579 B1	06-10-1995
JP 2002281948	A	02-10-2002	NONE	